# BRUHAT BANGALORE MAHANAGARA PALIKE

**Name of work: Construction of RCC drain at Kenchenahalli and Nagenahalli layout ISRO layout Harohalli and surrounding areas in chowdeshwari ward no -02 of yelahanka Sub division**

JOB NUMBER:

| Sl. No | Description of Work | Unit | No | Dimension L | Dimension B | Dimension D | Quantity | Go No-01 / Est. Amount = 200.00 Lakhs: Rate In Rs. | Amount In Rs. |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Removing and resetting of footpath slab | | | | | | | | |
| | KPWD S R 2018-19 | | | | | | | | |
| | RRS Cover Slab | It. No. | 21.7 | | Pg No | 158 | | | |
| | ISRO Layout | | | | | | | | |
| | 1st Main Road | | | | | | | | |
| | 5th Main road | | 1 | 9.00 | 0.90 | | 8.10 | | |
| | 6th Main Road | | 1 | 160.00 | 0.60 | | 96.00 | | |
| | 2nd Main Road | | 1 | 31.00 | 0.90 | | 27.90 | | |
| | Nagenahalli Layout | Sqm | 1 | 131.00 | 0.60 | | 78.60 | | |
| | 2nd Cross Road Right side | | | | | | | | |
| | 2nd Cross Road Left side | | 2 | 28.00 | 0.90 | | 50.40 | | |
| | 3rd Cross Road Right side | | 2 | 21.00 | 0.90 | | 37.80 | | |
| | 3rd Cross Road Left side | | 2 | 23.00 | 0.90 | | 41.40 | | |
| | | | 2 | 23.00 | 0.90 | | 41.40 | | |
| | | | | | | Total Qty | 381.60 | 208.82 | 79,685.71 |
| 2 | KSRRB300-1 Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. | | | | | | | | |
| | KPWD S R 2018-19 | It. No | 19.10 | | Pg No | 130 | | | |
| | CC Drain | | | | | | | | |
| | ISRO Layout | | | | | | | | |
| | 1st Main Road | | 1 | 360.00 | 1.00 | 0.90 | 324.00 | | |
| | 3rd main road | | 1 | 60.00 | 1.00 | 0.90 | 54.00 | | |
| | 4th main road | | 1 | 168.00 | 1.00 | 0.90 | 151.20 | | |
| | 5th Main road | | 2 | 163.00 | 1.00 | 0.80 | 260.80 | | |
| | 6th Main Road | | 1 | 130.00 | 1.00 | 0.80 | 104.00 | | |
| | 7th 'C' Cross | | 1 | 32.00 | 1.00 | 0.80 | 25.60 | | |
| | 2nd Main Road | | 1 | 167.00 | 1.00 | 0.80 | 133.60 | | |
| | 8th Cross | | 2 | 86.00 | 1.00 | 0.80 | 137.60 | | |
| | Nagenahalli Layout | | | | | | | | |
| | Main Road | | 2 | 109.00 | 1.00 | 0.90 | 196.20 | | |
| | 1st Cross Road | | 2 | 37.00 | 1.00 | 0.80 | 59.20 | | |
| | 2nd Cross Road Right side | | 2 | 37.00 | 1.00 | 0.80 | 59.20 | | |
| | 2nd Cross Road Left side | | 2 | 21.00 | 1.00 | 0.85 | 35.70 | | |
| | 3rd Cross Road Right side | | 2 | 37.00 | 1.00 | 0.80 | 59.20 | | |
| | 3rd Cross Road Left side | | 2 | 23.00 | 1.00 | 0.80 | 36.80 | | |
| | New Kerb | | | | | | | | |
| | ISRO Layout | | | | | | | | |
| | 1st Main Road | | 1 | 360.00 | 0.20 | 0.10 | 7.20 | | |
| | 8th Cross | | 2 | 71.00 | 0.20 | 0.10 | 2.84 | | |
| | Nagenahalli Layout | | | | | | | | |
| | Main Road | | 2 | 109.00 | 0.20 | 0.10 | 4.36 | | |
| | 1st Cross Road | | 2 | 37.00 | 0.20 | 0.10 | 1.17 | | |
| | 2nd Cross Road Right side | | 2 | 37.00 | 0.20 | 0.10 | 1.17 | | |
| | 2nd Cross Road Left side | | 2 | 21.00 | 0.20 | 0.10 | 0.84 | | |
| | 3rd Cross Road Right side | | 2 | 20.00 | 0.20 | 0.10 | 0.80 | | |
| | New Culvert | | | | | | | | |
| | Cross Road | | 3 | 7.30 | 1.50 | 1.00 | 32.85 | | |
| | | | | | | Total Qty | 1689.33 | 211.79 | 357,568.03 |
| 3 | KSRB 4-1.2 Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications | | | | | | | | |
| | KPWD S R 2018-19 | It. No | 4.20 | | Pg No. | 13 | | | |
| | CC Drain | | | | | | | | |
| | ISRO Layout | | | | | | | | |
| | 1st Main Road | | 1 | 360.00 | 1.00 | 0.15 | 54.00 | | |



Bruhat Bangalore Mahanagara Palike

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|---|---|---|---|---|---|---|---|---|---|
| 3rd main road | | 1 | | 60.00 | 1.00 | 0.15 | 9.00 | | |
| 4th main road | | 1 | | 168.00 | 1.00 | 0.15 | 25.20 | | |
| 5th Main road | | 2 | | 168.00 | 1.00 | 0.15 | 48.90 | | |
| 6th Main Road | | 1 | | 130.00 | 1.00 | 0.15 | 19.50 | | |
| 7th 'C' Cross | | 1 | | 32.00 | 1.00 | 0.15 | 4.80 | | |
| 2nd Main Road | | 1 | | 167.00 | 1.00 | 0.15 | 25.05 | | |
| 8th Cross | | 2 | | 65.00 | 1.00 | 0.15 | 25.80 | | |
| Nagenahalli Layout | | | | | | | | | |
| Main Road | | | | | | | | | |
| 1st Cross Road | | 2 | | 109.00 | 1.00 | 0.10 | 21.80 | | |
| 2nd Cross Road Right side | | 2 | | 37.00 | 1.00 | 0.10 | 7.58 | | |
| 2nd Cross Road Left side | | 2 | | 37.00 | 1.00 | 0.10 | 7.58 | | |
| 3rd Cross Road Right side | | 2 | | 21.00 | 1.00 | 0.10 | 4.20 | | |
| 3rd Cross Road Left side | | 2 | | 37.00 | 1.00 | 0.10 | 7.58 | | |
| New Kerb | | 2 | | 23.00 | 1.00 | 0.10 | 4.61 | | |
| ISRO Layout | | | | | | | | | |
| 1st Main Road | | | | | | | | | |
| 8th Cross | | 1 | | 300.00 | 0.20 | 0.10 | 7.20 | | |
| Nagenahalli Layout | | 2 | | 71.00 | 0.20 | 0.10 | 2.88 | | |
| Main Road | | | | | | | | | |
| 1st Cross Road | | 2 | | 109.00 | 0.20 | 0.10 | 4.36 | | |
| 2nd Cross Road Right side | | 2 | | 37.00 | 0.20 | 0.10 | 1.48 | | |
| 2nd Cross Road Left side | | 2 | | 37.00 | 0.20 | 0.10 | 1.48 | | |
| 3rd Cross Road Right side | | 2 | | 21.00 | 0.20 | 0.10 | 0.84 | | |
| New Culvert | | 2 | | 20.00 | 0.20 | 0.10 | 0.80 | | |
| Cross Road | | | | | | | | | |
| | | 3 | | 7.30 | 1.50 | 0.10 | 3.29 | | |
| | | | | | | Total Qty | 287.93 | 5505.64 | 1,585,238.93 |

4 KSRRB M2200-6 Providing TMT Bars Fe 500 steel reinforcement for R C C work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| KPWD S R 2018-19 | It No | 28.8.2 | | Pg No | 220 | | | |
| One cubic mt 60kg For CC Drain | T | 1 | 38.17 | | | 38.17 | | |
| One cubic mt 90kg For Culvert | | 1 | 1.22 | | | 1.22 | | |
| | | | | | Total Qty | 39.39 | 72326.98 | 2,848,959.74 |

5 Providing and laying plain/reinforced cement concrete for side drains Wall & bottom thickness 15cm using M20 nominal mix concrete with OPC at 300 kgs with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500,1700, 2200 including cost of materials, labour, HOM complete as per specifications

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| KPWD S R 2018-19 | It No | 37.50.1 | | Pg No | 271 | | | |
| CC Drain | | | | | | | | |
| Bottom Raft | | | | | | | | |
| ISRO Layout | | | | | | | | |
| 1st Main Road | | 1 | 300.00 | 0.90 | 0.15 | 48.60 | | |
| 3rd main road | | 1 | 60.00 | 0.90 | 0.15 | 8.10 | | |
| 4th main road | | 1 | 168.00 | 0.90 | 0.15 | 22.68 | | |
| 5th Main road | | 2 | 163.00 | 0.90 | 0.15 | 44.01 | | |
| 6th Main Road | | 1 | 130.00 | 0.90 | 0.15 | 17.55 | | |
| 7th 'C' Cross | | 1 | 32.00 | 0.90 | 0.15 | 4.32 | | |
| 2nd Main Road | | 1 | 167.00 | 0.90 | 0.15 | 22.55 | | |
| 8th Cross | | 2 | 65.00 | 0.90 | 0.15 | 23.22 | | |
| Nagenahalli Layout | | | | | | | | |
| Main Road | | 2 | 109.00 | 0.90 | 0.15 | 29.43 | | |
| 1st Cross Road | | 2 | 37.00 | 0.90 | 0.15 | 9.99 | | |
| 2nd Cross Road Right side | | 2 | 37.00 | 0.90 | 0.15 | 9.99 | | |
| 2nd Cross Road Left side | | 2 | 21.00 | 0.90 | 0.15 | 5.67 | | |
| 3rd Cross Road Right side | | 2 | 37.00 | 0.90 | 0.15 | 9.99 | | |
| 3rd Cross Road Left side | | 2 | 23.00 | 0.90 | 0.15 | 6.21 | | |
| Side Wall | Cum | | | | | | | |
| 1st Main Road | | 2 | 300.00 | 0.15 | 0.60 | 64.80 | | |
| 3rd main road | | 2 | 60.00 | 0.15 | 0.60 | 10.80 | | |
| 4th main road | | 2 | 168.00 | 0.15 | 0.65 | 32.76 | | |
| 5th Main road | | 4 | 163.00 | 0.15 | 0.65 | 63.57 | | |
| 6th Main Road | | 2 | 130.00 | 0.15 | 0.65 | 25.35 | | |



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| | Description of Work | Unit | No | Dimension L | B | D | Quantity | In Rs. | In Rs. |
|---|---|---|---|---|---|---|---|---|---|
| | 7th 'C' Cross | | | | | | | | |
| | 2nd Main Road | | 2 | 32.00 | 0.15 | 0.65 | 6.24 | | |
| | 8th Cross | | 2 | 167.00 | 0.15 | 0.65 | 32.57 | | |
| | Nagenahalli Layout | | 4 | 66.00 | 0.15 | 0.65 | 33.54 | | |
| | Main Road | | | | | | | | |
| | 1st Cross Road | | 4 | 109.00 | 0.15 | 0.65 | 42.51 | | |
| | 2nd Cross Road Right side | | 4 | 37.00 | 0.15 | 0.65 | 14.43 | | |
| | 2nd Cross Road Left side | | 4 | 37.00 | 0.15 | 0.65 | 14.43 | | |
| | 3rd Cross Road Right side | | 4 | 21.00 | 0.15 | 0.65 | 8.22 | | |
| | 3rd Cross Road Left side | | 4 | 37.00 | 0.15 | 0.70 | 15.54 | | |
| | New Culvert | | 4 | 23.00 | 0.15 | 0.65 | 8.97 | | |
| | Bottom Raft | | | | | | | | |
| | Side Wall | | 3 1 | 7.30 | 1.20 | 0.23 | 6.04 | | |
| | | | 3 2 | 7.30 | 0.23 | 0.75 | 7.56 | | |
| | | | | | | Total Qty | 649.65 | 7070.20 | 4,593,014.03 |
| 6 | Supplying and fixing precast reinforced concrete slab 10 cm thick of mix M20 using 20mm and downsize graded granite metal using reinforcement 10mm dia steel at 150mm C/c both ways cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface etc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of cost of all materials(data Rate enclosed) | | | | | | | | |
| | Approval Data Rate | | | | | | | | |
| | Cover Slab | | | | | | | | |
| | Cover Slab for Damaged Portion | | | | | | | | |
| | ISRO Layout | | | | | | | | |
| | 1st Main Road | | 1 | 360.00 | 0.90 | | 324.00 | | |
| | 3rd main road | | 1 | 60.00 | 0.90 | | 54.00 | | |
| | 4th main road | | 1 | 168.00 | 0.90 | | 151.20 | | |
| | 5th Main road | | 2 | 163.00 | 0.90 | | 293.40 | | |
| | 6th Main Road | | 1 | 130.00 | 0.90 | | 117.00 | | |
| | 7th 'C' Cross | | 1 | 32.00 | 0.90 | | 28.80 | | |
| | 2nd Main Road | | 1 | 165.00 | 0.90 | | 148.50 | | |
| | 8th Cross | Sqm | 2 | 80.00 | 0.90 | | 144.00 | | |
| | Nagenahalli Layout | | | | | | | | |
| | Main Road | | 2 | 109.00 | 0.90 | | 196.20 | | |
| | 1st Cross Road | | 2 | 37.00 | 0.90 | | 66.60 | | |
| | 2nd Cross Road Right side | | 2 | 37.00 | 0.90 | | 66.60 | | |
| | 2nd Cross Road Left side | | 2 | 21.00 | 0.90 | | 37.80 | | |
| | 3rd Cross Road Right side | | 2 | 37.00 | 0.90 | | 66.60 | | |
| | 3rd Cross Road Left side | | 2 | 23.00 | 0.90 | | 41.40 | | |
| | | | | | | | 1736.10 | | |
| | Deduct Available 30% slabs | | | | | | 520.83 | | |
| | | | | | | Total Qty | 1215.00 | 2337.00 | 2,839,455.00 |
| 7 | Providing and laying Pre Cast Drain Cover slabs of 250mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed) | | | | | | | | |
| | Approval Data Rate | | | | | | | | |
| | New Culvert | | | | | | | | |
| | | Sqm | 3 | 7.30 | 1.50 | | 32.85 | | |
| | | | | | | Total Qty | 32.85 | 5418.00 | 177,981.30 |
| 8 | Providing and fixing Pre cast solid concrete kerb stones of size 450 x 200 x 400 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete | | | | | | | | |
| | KPWD S R 2018-19 | It No | 5.29.1 | | | Pg No | 27 | | |
| | New Kerb | | | | | | | | |
| | ISRO Layout | | | | | | | | |
| | 1st Main Road | | 1 | 360.00 | | | 360.00 | | |
| | 6th Cross | | 2 | 71.00 | | | 142.00 | | |
| | Nagenahalli Layout | | | | | | | | |
| | Main Road | Nos | 2 | 109.00 | | | 218.00 | | |
| | 1st Cross Road | | 2 | 37.00 | | | 74.00 | | |
| | 2nd Cross Road Right side | | 2 | 37.00 | | | 74.00 | | |
| | 2nd Cross Road Left side | | 2 | 21.00 | | | 42.00 | | |
| | 3rd Cross Road Right side | | 2 | 20.00 | | | 40.00 | | |
| | | | | | | | 950.00 | | |
| | | | | | | Total Qty | 2112.00 | 477.00 | 1,007,424.00 |

| Sl. No | Description of Work | Unit | No | Dimension L | B | D | Quantity | Rate In Rs. | Amount In Rs. |
|---|---|---|---|---|---|---|---|---|---|
| 9 | KSRRB 800-1 Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. | | | | | | | | |
| | KPWD S R 2018-19 | II No | 24 1. | | | Pg No | 180 | | |
| | New Kerb | | | | | | | | |
| | ISRO Layout | | | | | | | | |
| | 1st Main Road | | | | | | | | |
| | 8th Cross | | 1 | 360 00 | | 0 50 | 180 00 | | |
| | Nagenahalli Layout | | 2 | 71 00 | | 0 50 | 71 00 | | |
| | Main Road | | | | | | | | |
| | 1st Cross Road | Sqm | 2 | 109 00 | | 0 50 | 109 00 | | |
| | 2nd Cross Road Right side | | 2 | 37 00 | | 0 50 | 37 00 | | |
| | 2nd Cross Road Left side | | 2 | 37 00 | | 0 50 | 37 00 | | |
| | 3rd Cross Road Right side | | 2 | 21 00 | | 0 50 | 21 00 | | |
| | | | 2 | 20 00 | | 0 50 | 20 00 | | |
| | | | | | | | Total Qty 475 00 | 84 60 | 40,280.00 |
| 10 | Providing and applying primer coat with S S bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0 60 kg / sqm using mechanical means complete as per specifications and as per directoins of the Engineer in charge of work. | | | | | | | | |
| | KPWD S R 2018-19 | II No | 21 6 | | | Pg No | 158 | | |
| | ISRO layout | | | | | | | | |
| | 1st Main Road | | 2 | 311 00 | 4 50 | | 2799 00 | | |
| | 2nd Main Road | | 1 | 170 00 | 5 50 | | 935 00 | | |
| | 5th Main Road | | 1 | 170 00 | 5 50 | | 935 00 | | |
| | Nagenahalli layout | | | | | | | | |
| | Main road | | 1 | 134 00 | 6 00 | | 804 00 | | |
| | 1st Cross Road | Sqm | 1 | 35 00 | 5.50 | | 192 00 | | |
| | 2nd Cross Road Right Side | | 1 | 35 00 | 5.40 | | 189 00 | | |
| | 2nd Cross Road Left Side | | 1 | 20 00 | 5 40 | | 108 00 | | |
| | 3rd Cross Road Right Side | | 1 | 35 00 | 5 40 | | 189 00 | | |
| | 3rd Cross Road Left Side | | 1 | 20 00 | 5 50 | | 110 00 | | |
| | Approch Road (Main Road) | | 2 | 14 00 | 5 50 | | 154 00 | | |
| | | | | | | | Total Qty 6415 00 | 33 92 | 217,596.80 |
| 11 | KSRRB 500-2 Cleaning the existing black topped surface with Sqm brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications Clause 501 of MORTH V revision | | | | | | | | |
| | KPWD S R 2018-19 | II No | 21 20 | | | Pg No | 159 | | |
| | Cleaning | | | | | | | | |
| | ISRO layout | | | | | | | | |
| | 1st Main Road | | 2 | 311 00 | 4 50 | | 2799 00 | | |
| | 2nd Main Road | | 1 | 170 00 | 5 50 | | 935 00 | | |
| | 5th Main Road | | 1 | 170 00 | 5 50 | | 935 00 | | |
| | Nagenahalli layout | | | | | | | | |
| | Main road | | 1 | 134 00 | 6 00 | | 804 00 | | |
| | 1st Cross Road | Sqm | 1 | 35 00 | 5 50 | | 192 00 | | |

| Sl No | Description of Work | Unit | No | Dimension L | B | D | Quantity | Rate In Rs. | Amount In Rs. |
|---|---|---|---|---|---|---|---|---|---|
| | 2nd Cross Road Right Side | | 1 | 35.00 | 5.40 | | 189.00 | | |
| | 2nd Cross Road Left Side | | 1 | 20.00 | 5.40 | | 108.00 | | |
| | 3rd Cross Road Right Side | | 1 | 35.00 | 5.40 | | 189.00 | | |
| | 3rd Cross Road Left Side | | 1 | 20.00 | 5.50 | | 110.00 | | |
| | Approch Road (Main Road) | | 2 | 14.00 | 5.50 | | 154.00 | | |
| | | | | | | Total Qty | 6415.00 | 5.30 | 33,999.50 |
| 12 | KSRRB M500-17. Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. MORTH Specification No. 507. Using 100/120 TPH capacity HMP with sensor paver Gr-II (50 mm to 75mm) with 4.5% VG-30 Bitumen. | | | | | | | | |
| | KPWD S R 2018-19 | R No | 21 17 2 | | | Pg No | 160 | | |
| | DBM For Road | | | | | | | | |
| | Consider DBM for Profile Correction 15% | cum | | | | | | | |
| | | | 1 | 6415.00 | 0.15 | 0.05 | 48.11 | | |
| | | | | | | Total Qty | 48.11 | 7620.34 | 366,614.56 |
| 13 | KSRRB M500-10. Providing and applying tack coat using 60/100 grade Sqm bitumen(VG10) in boiler fitted with spray set distributor at the rate of 0.25 kg per sqm on the existing prepared bituminous surface (primed surface) cleaned with mechanical broom, complete as per specifications. Clause 503 of MORTH V revision | | | | | | | | |
| | KPWD S R 2018-19 | R No | 21 7 | | | Pg No | 158 | | |
| | BC Road | | | | | | | | |
| | ISRO layout | | | | | | | | |
| | 1st Main Road | | 2 | 311.00 | 4.50 | | 2799.00 | | |
| | 2nd Main Road | | 1 | 170.00 | 5.50 | | 935.00 | | |
| | 5th Main Road | | 1 | 170.00 | 5.50 | | 935.00 | | |
| | Nagenahalli layout | | | | | | | | |
| | Main road | | 1 | 134.00 | 6.00 | | 804.00 | | |
| | 1st Cross Road | Sqm | 1 | 35.00 | 5.50 | | 192.00 | | |
| | 2nd Cross Road Right Side | | 1 | 35.00 | 5.40 | | 189.00 | | |
| | 2nd Cross Road Left Side | | 1 | 20.00 | 5.40 | | 108.00 | | |
| | 3rd Cross Road Right Side | | 1 | 35.00 | 5.40 | | 189.00 | | |
| | 3rd Cross Road Left Side | | 1 | 20.00 | 5.50 | | 110.00 | | |
| | Approch Road (Main Road) | | 2 | 14.00 | 5.50 | | 154.00 | | |
| | | | | | | Total Qty | 6415.00 | 12.72 | 81,598.80 |

| No | Description of Work | Unit | No | Dimension L | Dimension B | Dimension D | Quantity | Rate In Rs | Amount In Rs |
|---|---|---|---|---|---|---|---|---|---|
| 14 | Providing and laying bituminous concrete 40mm thick with hot mix plant, using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015 | | | | | | | | |
| KPWD S R 2018-19 | | It No | 21 78 12 | | | Pg No | 171 | | | |
| BC Road | | | | | | | | | | |
| ISRO layout | | | | | | | | | | |
| 1st Main Road | | | 2 | | 311 00 | 4 50 | 0 04 | 111 96 | | |
| 2nd Main Road | | | 1 | | 170.00 | 5 50 | 0 04 | 37.40 | | |
| 5th Main Road | | | 1 | | 170.00 | 5 50 | 0 04 | 37.40 | | |
| Nagenahalli layout | | | | | | | | | | |
| Main road | | | 1 | | 134 00 | 6 00 | 0 04 | 32.16 | | |
| 1st Cross Road | | Sqm | 1 | | 35 00 | 5 50 | 0 04 | 7.70 | | |
| 2nd Cross Road Right Side | | | 1 | | 35 00 | 5.40 | 0 04 | 7.56 | | |
| 2nd Cross Road Left Side | | | 1 | | 20 00 | 5 40 | 0 04 | 4 30 | | |
| 3rd Cross Road Right Side | | | 1 | | 35 00 | 5 40 | 0 04 | 7 56 | | |
| 3rd Cross Road Left Side | | | 1 | | 20 00 | 5 50 | 0 04 | 4 40 | | |
| Approch Road (Main Road) | | | 2 | | 14 00 | 5 50 | 0 04 | 6 16 | | |
| | | | | | | | Total Qty | 256 60 | 8699.42 | 2,232,271.17 |
| 15 | KSRRB M800-13 Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface Providing and laying of hot applied thermoplastic compound 2 5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2 5 mm is exclusive of surface applied glass beads as per IRC 35 standards specified The finished surface to be level, uniform and free from streaks and holes complete as per specifications MORTH Specification No 803 | | | | | | | | | |
| KPWD S R 2018-19 | | It No | 24 15 | | | Pg No | 182 | | | |
| ISRO layout | | | | | | | | | | |
| 1st Main Road | | | 3 | | 311 00 | 0 15 | | 139 95 | | |
| 2nd Main Road | | | 3 | | 170 00 | 0 15 | | 76 50 | | |
| 5th Main Road | | | 3 | | 170 00 | 0 15 | | 76 50 | | |
| Nagenahalli layout | | | | | | | | | | |
| Main road | | | 3 | | 134 00 | 0 15 | | 60 35 | | |
| 1st Cross Road | | | 3 | | 35 00 | 0 15 | | 15 75 | | |
| 2nd Cross Road Right Side | | | 3 | | 35 00 | 0 15 | | 15 75 | | |
| 2nd Cross Road Left Side | | | 3 | | 20 00 | 0 15 | | 9 00 | | |
| 3rd Cross Road Right Side | | | 2 | | 20 00 | 0 15 | | 8 70 | | |

| No | Description of Work | Unit | No | Dimension L | Dimension B | Dimension D | Quantity | Rate In Rs. | Amount In Rs. |
|---|---|---|---|---|---|---|---|---|---|
| | 3rd Cross Road Left Side | | | | | | | | |
| 16 | | | 2 | 20.00 | 0.15 | | 6.00 | | |
| | | | | | | Total Qty | 408.50 | 454.74 | 185,761.29 |

KSRRB M800-35 Supply and Installion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 - DO III Dt 11.06.1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer.

| KPWD S R 2018-19 | It No | | | | Pg No | 187 | | | |
|---|---|---|---|---|---|---|---|---|---|
| Road Both Side | | | | | | | | | |
| ISRO layout | | | | | | | | | |
| 1st Main Road | | 3 | | 60.00 | | | 180.00 | | |
| 2nd Main Road | | 3 | | 37.00 | | | 111.00 | | |
| 5th Main Road | | 3 | | 37.00 | | | 111.00 | | |
| Nagenahalli layout | | | | | | | | | |
| Main road | Nos | 3 | | 30.00 | | | 90.00 | | |
| 1st Cross Road | | 3 | | 10.00 | | | 30.00 | | |
| 2nd Cross Road Right Side | | 3 | | 10.00 | | | 30.00 | | |
| 2nd Cross Road Left Side | | 3 | | 8.00 | | | 24.00 | | |
| 3rd Cross Road Right Side | | 2 | | 7.00 | | | 14.00 | | |
| 3rd Cross Road Left Side | | 2 | | 7.00 | | | 14.00 | | |
| | | | | | | Total Qty | 604.00 | 357.22 | 215,760.88 |

17 KSRRB M800-35 Supply and Installion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 - DO III Dt 11.06.1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer.

| KPWD S R 2018-19 | It No | | | | Pg No | 186 | | | |
|---|---|---|---|---|---|---|---|---|---|
| Edge lane | | | | | | | | | |
| Road Both Side | Nos | 2 | | 1.60 | | 0.9 | 2.88 | | |
| Road Centre | | | | | | | | | |
| | | | | | | Total Qty | 2.88 | 1963.12 | 5,653.79 |

18 Direction and Place Identification Signs with size morethan 0.9 Size Board Providing and erecting direction and place identification retro -reflectorised sign as per IRC 67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm , 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 cm, 60 cm below ground level as per approved drawing

| KPWD S R 2018-19 | It No | | | | Pg No | 160 | | | |
|---|---|---|---|---|---|---|---|---|---|
| Cross Roads | | | | | | | | | |
| | Sqm | 4 | | 0.90 | | 0.9 | 3.24 | | |
| | | | | | | Total Qty | 3.24 | 7557.60 | |
| | | | | | | | Total Construction cost | | 24,497.27 |
| | | | | | | | | | 16,693,350.80 |
| | | | | | | | Design Report,Proof Checking & PMC Amount | GST 12% | 2,027,202.10 |
| | | | | | | | | Add KRIDL Charges 4% | 400,000.00 |
| | | | | | | | | | 675,734.03 |

| No | Description of Work | Unit | No | Dimension | | | Quantity | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | | L | B | D | | In Rs. | In Rs. |
| | | | | | | | | Sub Total | 199,96,286.93 |
| | | | | | | | | Miscellaneous & Rounding Off | 3,713.07 |
| | | | | | | | | Grand Total | 200,00,000.00 |

Certificate -

1 The workspot was inspected and work is found to be necessary
2 The area comes within the Bruhat Bangalore Mahanagara Palike Limits
3 The rates adopted based on the PWD SR Bangalore Circle for year 2018-19
4 The provisions made in the estimate are necessary and essential

Consultant
For Sri Sai Consultants

Assistant Engineer
Ward no 02
BBMP - Bangalore

Assistant Executive Engineer
Yelahanka Sub Division
BBMP - Bangalore

Executive Engineer
Yelahanka Division
BBMP - Bangalore

Administrative Sanction for Rs. 200.00 lakhs
Two Crores only
is accorded under head P - 3747
CM - Navanagarothana 110-village
granted Annexure-07
Registered as
Subject
to conditions
No EE/YNK/ES/2019-20 dt 21/11/2019
Executive Engineer
Division Bdas

Technical Sanction
Accorded For R&I Works (authority)
Head of A/C P 3747
CER No: 193 Dt: 21-11-2019
AEE (YNK)